

Figure 1A Circular array of miniature video cameras

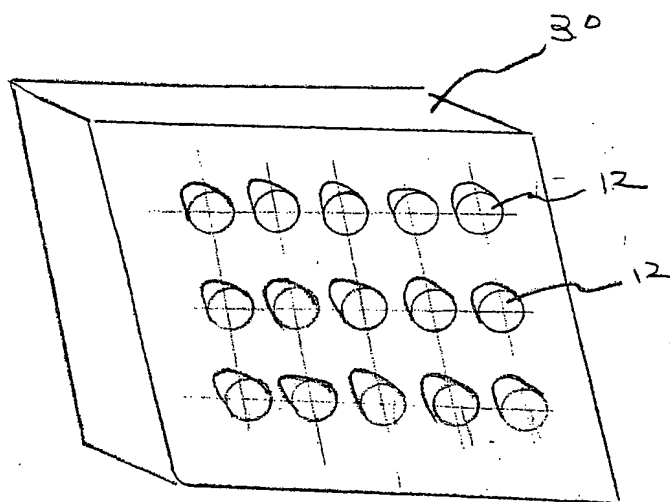


FIG. 1B

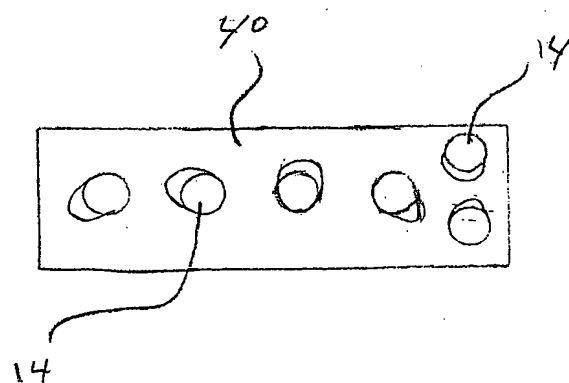


FIG. 1C

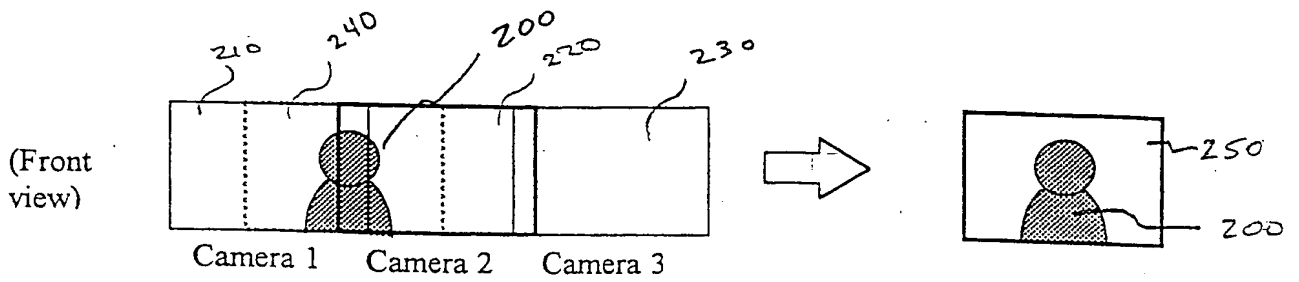


Figure 2A Composing images and extracting a "virtual camera" view

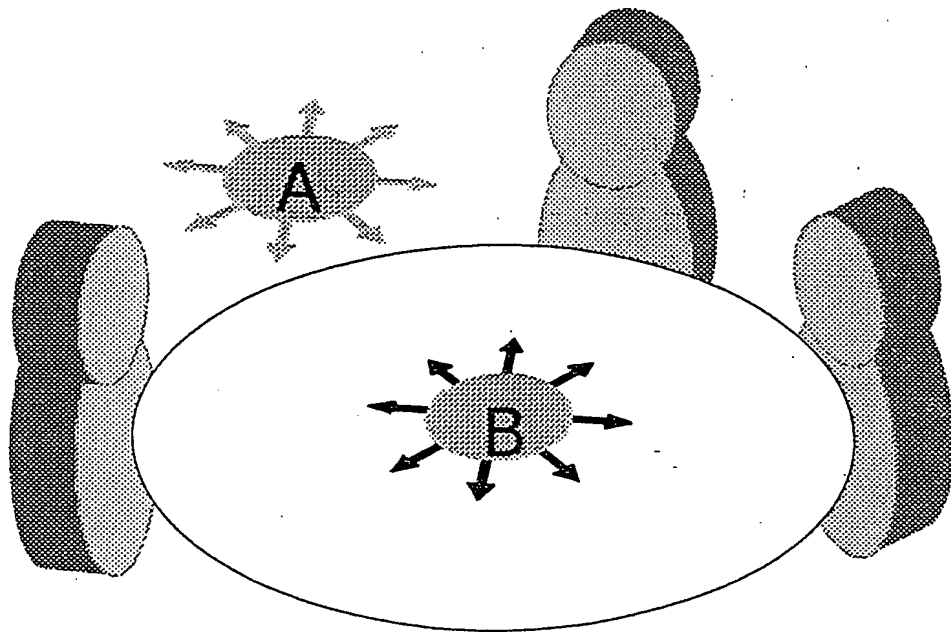
A hand-drawn schematic diagram illustrating a system architecture. The diagram includes the following components and connections:

- 260**: A rectangular block containing a 3x4 grid of small circles, representing a data source or storage.
- 262**: A large oval shape containing a diamond-shaped region with four small squares inside, representing a target area or sensor field.
- 264**: A rectangular block representing a processing unit or controller.
- 266**: A radio tower icon labeled "RND" at its base, representing a remote network device.
- 280**: A small electronic device with a circular antenna and two buttons, representing a handheld terminal or sensor.
- 282**: A rectangular block representing a base station or gateway.
- 284**: A small rectangular block with a vertical label, representing a peripheral device or interface.
- 286**: A computer monitor displaying a graphical interface with a central point and radiating lines, representing a user interface or data display.

The connections between the components are as follows:

- Arrows point from the circles in **260** to the diamond region in **262**.
- A curved arrow points from **260** to **264**.
- A straight line connects **264** to the radio tower **266**.
- A jagged line (representing a wireless signal) connects the radio tower **266** to the handheld device **280**.
- A straight line connects the handheld device **280** to the base station **282**.
- A jagged line connects the base station **282** to the peripheral device **284**.
- A straight line connects the base station **282** to the computer monitor **286**.

Fig. 2B



*Figure 3: Circular camera array for teleconferencing applications*

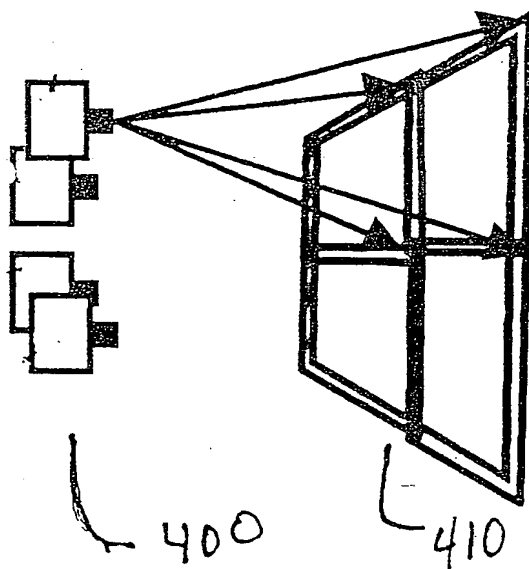


FIG. 4A

FIG. 4B.

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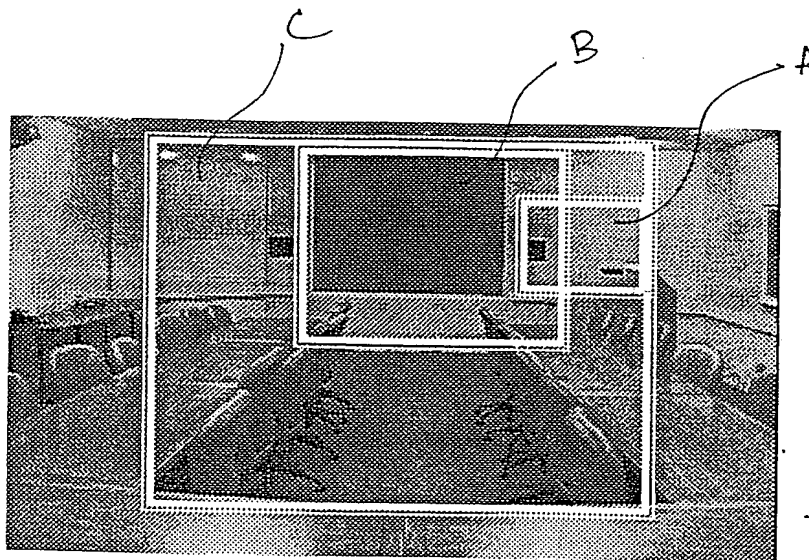


FIG 4C



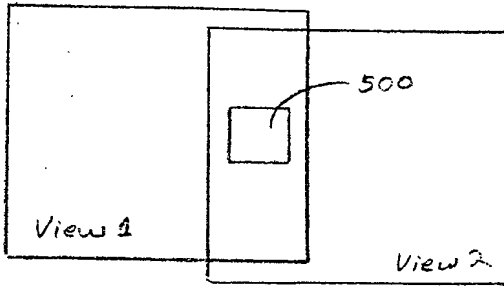


FIG. 5A

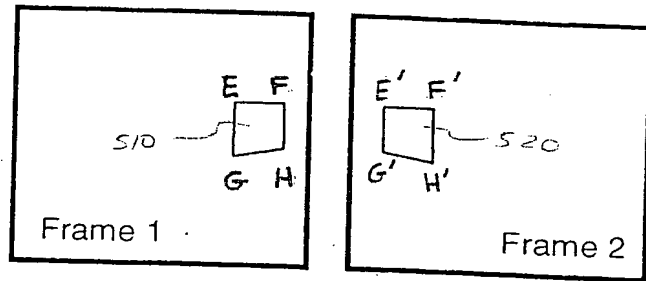


FIG. 5B

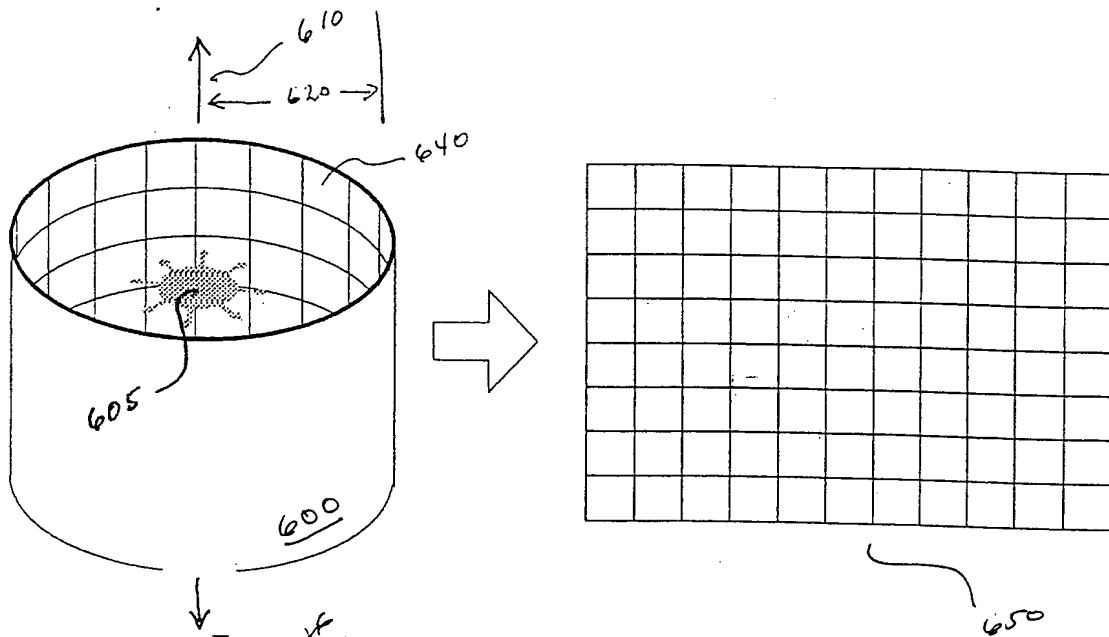


Figure 4: Generating a flat panorama from image patches

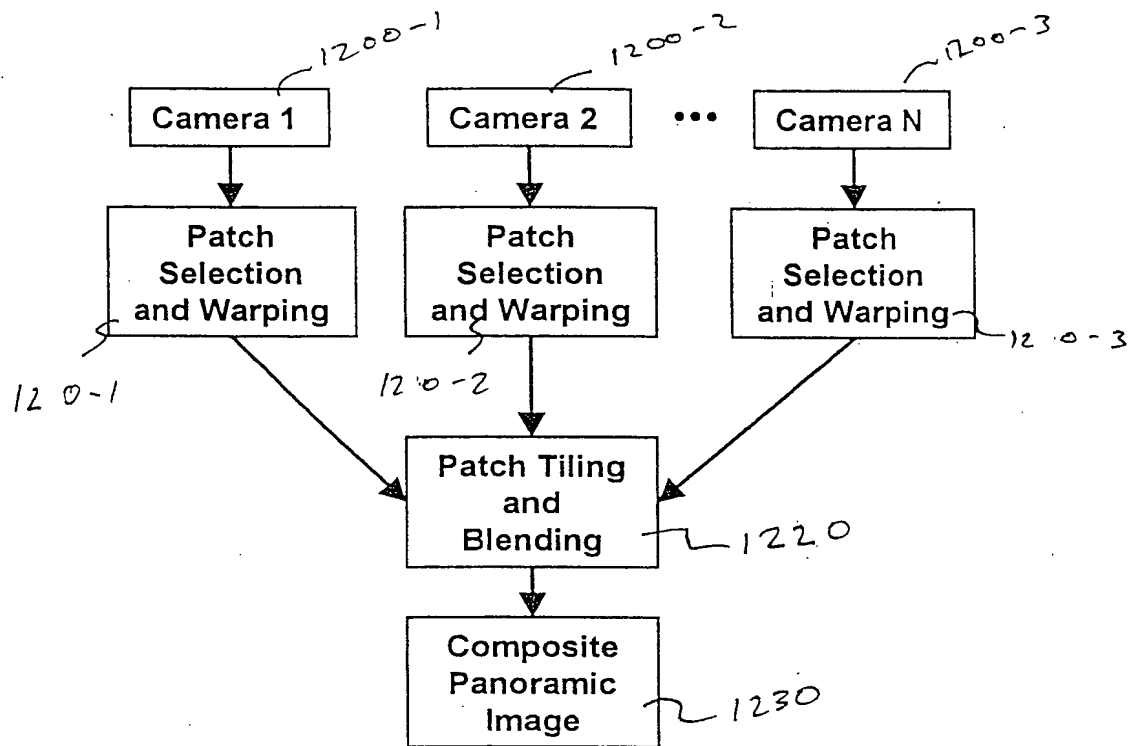




FIG. 9

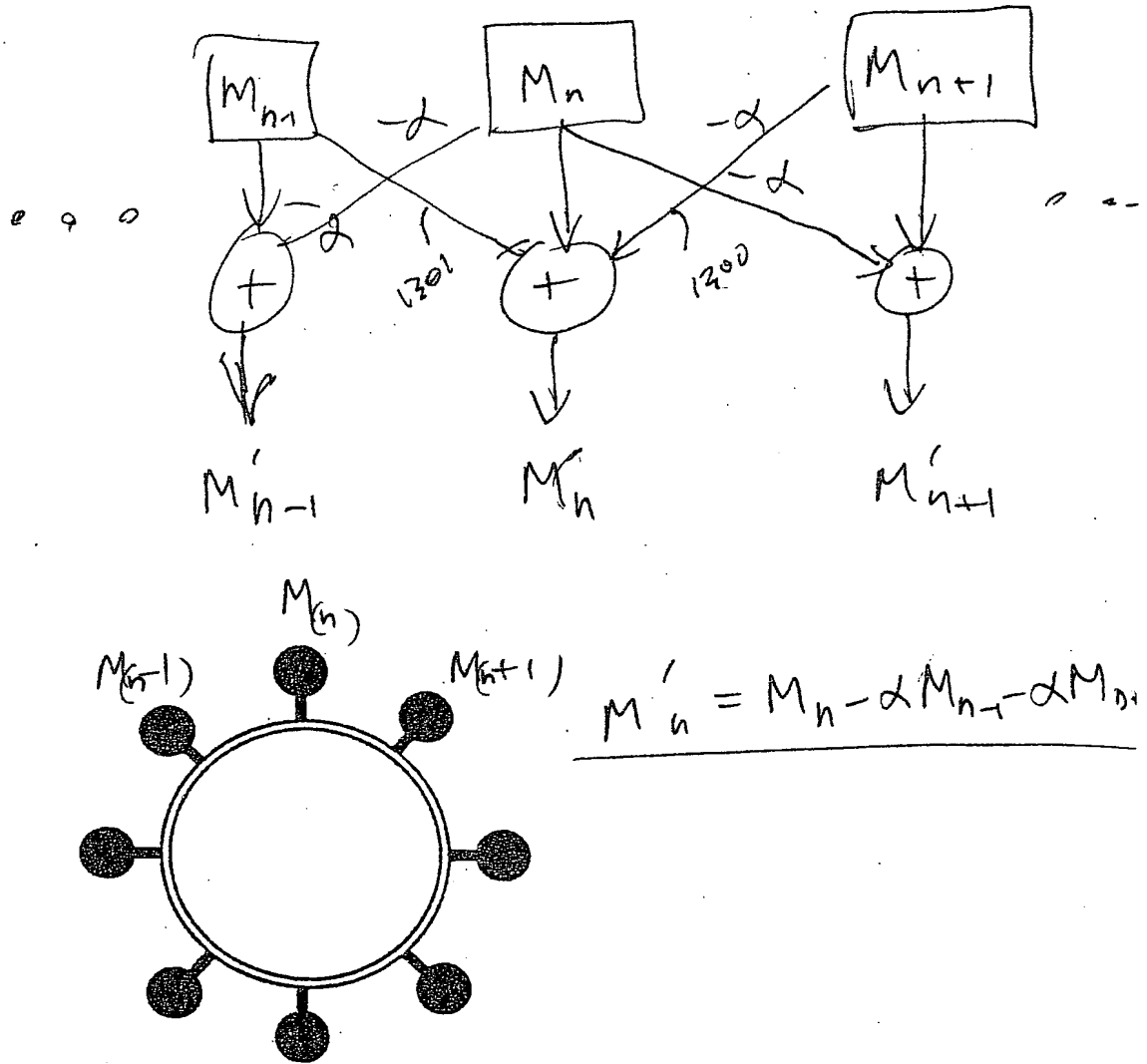






<sup>12</sup>  
Figure 10: Panoramic image composition procedure for each frame





13  
Figure 13: Radial microphone array (top view)

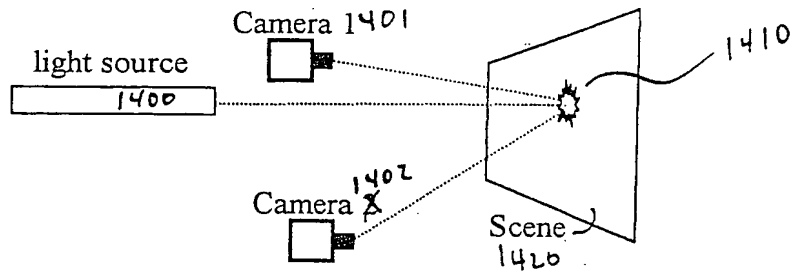


Figure 14: Automatic camera calibration using light source to find registration points

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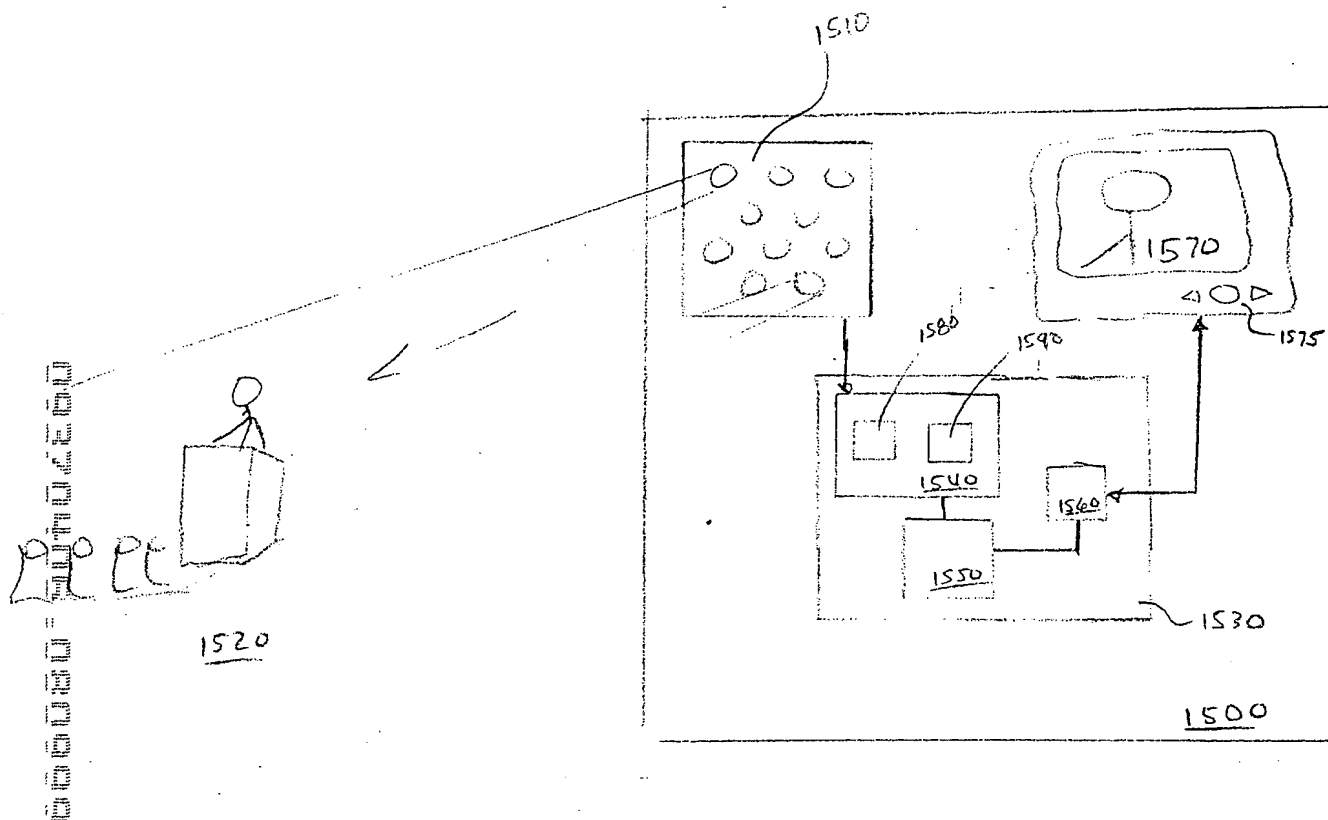


FIG. 15